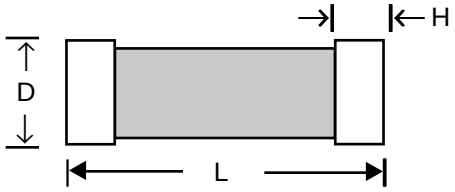
HIGH POWER/HIGH VOLTAGE
2 WATT to 250 WATT
THICK FILM RESISTORS
SR SERIES

RCD
RESISTORS •COILS•DELAY LINES

FEATURES
- ❒ Power ratings up to 250 watts.
- ❒ Voltage ratings up to 300KV.
- ❒ Wide resistance range: 500K to 5000MΩ.
- ❒ Standard Tolerances: ±2, 5, 10, 20%
- ❒ Excellent temperature stability.
- ❒ Excellent resistance to voltage pulses.
- ❒ Ferrule terminals for clip mounting.



Industry's highest power film resistors!

RCD's SR Series is designed for high voltage and/or high power applications. Film construction has extremely low reactance enabling superior high-frequency performance. Insulation is resistant to moisture, solvents, and oil mediums.

The combination of high power and high voltage provides new opportunities for design engineers to obtain the utmost in performance, without the need to assemble chains of resistors in series. Applications include X-ray equipment, electron microscopes, and TWT amplifiers.

RCD Type	Max. Working Voltage*	Wattage @ 70°C**	Critical Resistance	Resistance Range	Dimensions		
					L	D	H
SR15	15KV	2.0	112M	500K to 500M	2.05±.08 [52.1±2.03]	.512±.02 [13.0±.51]	.275±.04 [7.0±1.01]
SR20	20KV	3.0	133M	500K to 1000M	3.23±.08 [82.0±2.03]	.512±.02 [13.0±.51]	.275±.04 [7.0±1.01]
SR30	30KV	5.0	180M	500K to 2000M	3.94±.08 [100.1±2.03]	.748±.02 [19.0±.51]	.394±.05 [10.0±1.27]
SR60	60KV	10	360M	500K to 5000M	7.87±.08 [199.9±2.03]	.906±.02 [23.0±.51]	.590±.05 [14.0±1.27]
SR90	90KV	25	324M	500K to 5000M	11.00±.08 [279.4±2.03]	1.18±.02 [30.0±.51]	.787±.06 [20.0±1.52]
SR120	120KV	50	288M	500K to 5000M	14.57±.08 [370.1±2.03]	1.81±.02 [46.0±.51]	.787±.06 [20.0±1.52]
SR150	150KV	100	225M	500K to 5000M	18.50±.08 [469.9±2.03]	1.81±.02 [46.0±.51]	.984±.06 [25.0±1.52]
SR200	200KV	150	267M	1M to 5000M	23.62±.12 [599.9±3.05]	1.81±.02 [46.0±.51]	.984±.06 [25.0±1.52]
SR250	250KV	200	312M	1M to 5000M	31.50±.12 [800.1±3.05]	2.12±.02 [53.8±.51]	1.26±.08 [32.0±1.52]
SR300	300KV	250	360M	1M to 5000M	39.37±.12 [1000±3.05]	2.12±.02 [53.8±.51]	1.26±.08 [32.0±1.52]

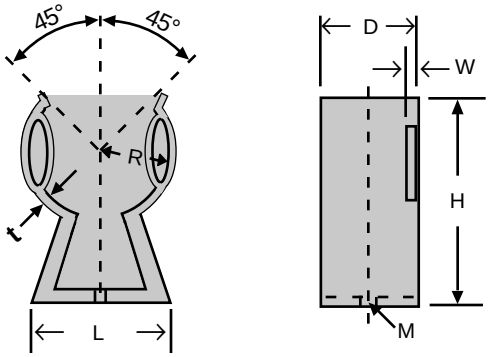
* Maximum working voltage determined by E= $\sqrt{PR}$ below the critical resistance value.
** Increased wattage ratings up to double the standard are available, consult factory.

PERFORMANCE CHARACTERISTICS

Wattage Derating (linear)	Full power @ 70°C to zero @ 125°C
Temperature Range	-25°C to + 125°C
Temperature Coefficient	-300 to 600 ppm/°C Typ.
Short-Time Overload*	±2.5% Max. ΔR
1000 Hour Load Life (in oil)	±5.0% Max. ΔR
Dielectric Strength	±1.0% Max. ΔR

* 2.5x rated wattage (not to exceed 1.5x max. working voltage) for 5 seconds.

MOUNTING CLIPS



(Dimensions given are nominal.)

For use on Type	R	D	L	H	M	t	W
SR15, SR20	.24	.24	.51	.67	.125	.02	.04
SR30	.36	.40	.63	1.00	.165	.03	.06
SR60	.44	.59	.71	1.25	.165	.04	.06
SR90	.57	.71	.95	1.54	.256	.04	.06
SR120, SR150, SR200	.89	.79	1.42	2.36	.256	.06	.08
SR250, SR300	1.04	.98	1.77	2.75	.256	.06	.08

P/N DESIGNATION:

SR90 - 1006 - K B

RCD Type

4-Digit Resis. Code: 3 signif. digits & multiplier
(5003=500KΩ, 1004=1MΩ, 1005=10MΩ, 1006=100MΩ, 1007=1000MΩ or 1GΩ)

Tolerance Code: M=20%, K=10%, J=5%, G=2%

Packaging: B = Bulk (only)

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